



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/818,358

03/27/2001

Lance E. Olson

MS158545.1

1183

27195

7590

02/03/2006

AMIN & TUROCY, LLP  
24TH FLOOR, NATIONAL CITY CENTER  
1900 EAST NINTH STREET  
CLEVELAND, OH 44114

EXAMINER

POLTORAK, PIOTR

ART UNIT

PAPER NUMBER

2134

DATE MAILED: 02/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/818,358

Applicant(s)

OLSON ET AL.

Examiner

Peter Poltorak

Art Unit

2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 December 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 and 22-30 is/are pending in the application.
- 4a) Of the above claim(s) 21 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20, 22-26 and 30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. The Amendment, and remarks therein, received on 12/12/05 have been entered and carefully considered.
2. Applicant canceled claim 21 and amended claim language of claims 1, 16, 22 and 26.
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

### ***Response to Amendment***

4. Applicant's arguments directed towards the rejection of the amended claims have been carefully considered and found persuasive.
5. Although, the current amendment did not introduce any new significant limitations the newly introduced limitations in claims 1-16, 20, 22, 25-26 and 30 introduced on 7/11/05 necessitated a new search that resulted in the newly discovered prior art.
6. New grounds of rejection based on the newly discovered prior art follow below.
7. Claims 1-20, 22-26 and 30 have been examined.

### ***Claim Rejections - 35 USC § 102***

8. Claims 1, 13, 16, 18 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by *Wu et al.* (U.S. Patent No. 5774551).
9. As per claims 1, 16 and 30 *Wu et al.* teach employing a component implemented on a computer readable medium to accept an authentication challenge and passing a

first data associated with the authentication challenge to an authentication manager (*Wu et al.*, Fig. 1, col. 9 lines 47-col. 56). *Wu et al.* teach that the authentication manager processes the first data into second data of a first type appropriate for a first authentication module, and that the authentication manager processes the first data into second data of a second type appropriate for a second authentication module, the first and second authentication modules having different requirements for the second data and passing at least one of the second data associated with the authentication challenge to one or more authentication modules, where the authentication modules are registered with the authentication manager, and where the authentication modules are operatively connected to the authentication manager (*Wu et al.*, col. 9 lines 63-67). The authentication modules are registered with the authentication manager (*Wu et al.*, col. 9 lines 52-56) and produce one or more responses to the authentication challenge (*Wu et al.*, col. 9 lines 67-col. 10 line 2).

10. As per claims 13 and 18 *Wu et al.* teach that the authentication challenge is generated by at least one of a Kerberos authentication system, a digest authentication system, a Basic authentication system, an NTLM authentication system and a certificate based authentication system (*Wu et al.*, col. 2 lines 1-43) and it is a multipart authentication challenge (*Wu et al.*, col. 9 lines 65-67).

***Claim Rejections - 35 USC § 103***

11. Claims 2-7, 17, 22-23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Wu et al.* (U.S. Patent No. 5774551) in view of *Van Hoff* (U.S. Patent No. 5822539) and *Travis et al.* U.S. Patent No. 6269367.
12. As per claims 3-5 and 7 and 23 *Wu et al.* teach multipart authentication generated by at least one of a Kerberos authentication system, a digest authentication system, a Basic authentication system, an NTLM authentication system and a certificate based authentication system and producing a set of third data as discussed above and teach that the authentication modules employ one or more services (*Wu et al.*, col. 21 lines 10-23).
13. As per claims 2, 17 *Wu et al.* do not explicitly teach a cache adapted to store data (e.g. one or more third data related to responding to the authentication challenge).
14. *Van Hoff* teach utilizing cache memory (*Van Hoff*, col. 1 lines 52-55). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to utilize cache in *Wu et al.*'s invention as taught by *Van Hoff* given a benefit of faster response to subsequent requests.
15. Furthermore, claims 6, 22 and 26 essentially refer to a pre-step of a previously discussed authentication, wherein instead of receiving, processing and responding to data associated with the communication challenge. The test is conducted and wherein test data received by the authentication manager triggers "pre-authentication procedures" that are essentially the same as the authentication procedures. Although, *Wu et al.* do not explicitly discuss test procedures, conducting tests prior to implementation of a system is old and well-known practice

as shown by *Travis et al.* (col. 2 lines 20-41) giving a benefit of addressing and avoiding potential problems prior to the system's live implementation.

16. Claims 8-12, 14-15, 19-20 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Wu et al.* (U.S. Patent No. 5774551) in view of *Van Hoff* (U.S. Patent No. 5822539) and *Travis et al.* U.S. Patent No. 6269367 and further in view of Object Oriented Programming as illustrated by *Burroughs et al.* (U.S. Patent No. 5878411), *Kumar et al.* (U.S. Patent No. 6343287), *Microsoft Press* (Microsoft Press, "Computer Dictionary, 3<sup>rd</sup> edition, ISBN: 157231446X, 1997) and *New Rider* (New Rider, "Windows 98 Professional Reference", <http://cma.zdnet.com/book/win98prfref/ch15/ch15.htm>).

17. As per claims 8 and 10-11 *Wu et al.*'s invention is object-oriented system that uses a class factory (*Wu et al.*, col. 12 lines 4-19, 39-47, col. 13 lines 4-11). However, *Wu et al.* do not explicitly teach instantiating one or more authentication objects based, at least in part, on the first data, and authentication objects callable by the authentication manager, and a data store that holds information associated with selectively instantiating the one or more authentication objects that can be callable by the authentication manager. However, these concepts are well known in the art. For example, *Burroughs et al.* disclose fundamentals of Object Oriented Programming:

"A fundamental concept in OOP is the class. A class is a template or prototype that defines a type of object. A programmer may define a class by writing a section of code known as a class definition. An object is an instance of a class. An object is

created or instantiated at run-time, i.e., when the computer executes a statement in the program calling for the instantiation of an object of a specified class. An object may include attributes or data as well as functions or methods. The class definition specifies the attributes and methods. The attributes are represented in an object by the values of instance variables" (*Burroughs et al.*, col. 5 lines 15-25).

18. Another example is provided by *Kumar et al.* who's invention involves

"a mechanism, method, and computer program product for linking a profile service instance to a plurality of external data stores. External data store profile that "is created in the profile service that names the connector class. An external data store reference object is created in the profile service instance that identifies the external data store profile and a number of parameters that specify particular data desired from the external data store. A profile within the profile service instance includes an attribute that names the data store reference object. When the attribute is evaluated, the data store reference object is instantiated, optionally using parameters specified at runtime, and passed as a parameter to an instance of the data store connector class identified by the external data store profile" (*Kumar et al.*, col. 5 lines 10-32).

19. In light of the above references it would have been obvious to one of ordinary skill in the art at the time of applicant's to register objects with the class factory and with the data store instantiating one or more authentication objects based, at least in part, on the first data, and authentication objects callable by the authentication manager, and a data store that holds information associated with selectively instantiating the one or more authentication objects callable by the authentication manager. One of

Art Unit: 2134

ordinary skill in art at the time of applicant's invention would have employed such a modification to conform with and take a full advantage of object oriented design, as well as to ensure that the objects are known and utilized by the system.

20. As per claims 12 and 25 *Wu et al.* do not explicitly teach that the applications do not have to be recoded or recompiled in order to employ the newly registered object" is acknowledged.

21. However, as illustrated by *Microsoft Press (dynamic link library, pg. 166)* as well as *the New Rider's "Windows 98 Professional Reference" reference (New Rider, "Understanding HKEY\_CLASSES\_ROOT" section)* disclose application that does not have to be recoded or recompiled to employ the registered objects were well known in the art and it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate such applications in order to speed up the applications' execution.

22. As per claims 19-20 and 24 *Wu et al.* teach that one or more authentication modules are "plugged" into and communicate with "pluggable account management" as objects (*e.g. passing parameters, Fig. 1 and col. 13 line 53 col. 14 line 35*) and it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to keep updating the authentication solution disclosed by *Wu et al.* by extending available modules including additional authentication schemes modules. One of ordinary skill in the art would have been motivated to perform such a modification in order to accommodate new authentication protocols.



Art Unit: 2134

23. As per claims 14-15 *Wu et al.*'s distributed authentication includes the computer facilitating the authentication, terminal and remote computers (*Wu et al. Fig. 1*).

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Jones et al. (U.S. Patent No. 5655077).

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Poltorak whose telephone number is (571)272-3840. The examiner can normally be reached Monday through Thursday from 9:00 a.m. to 4:00 p.m. and alternate Fridays from 9:00 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on (571) 272-3838. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

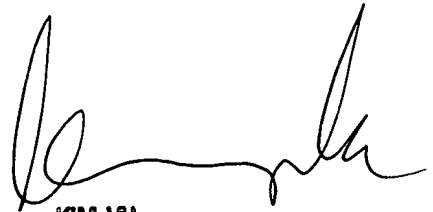
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Signature

1/23/06

Date



**KIM VU**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**